



EXPRESS MAIL NO. EV887984656US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Tongtong Wang et al.
Application No. : 10/623,155
Filed : July 17, 2003
For : COMPOSITIONS AND METHODS FOR THE THERAPY AND
DIAGNOSIS OF LUNG CANCER

Art Unit : 1632
Docket No. : 210121.455C20
Date : February 13, 2007

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, Applicants wish to make known to the Patent and Trademark Office the references set forth on the attached Second Supplemental Information Disclosure Statement. This application is a continuation-in-part and relies, under 35 U.S.C. § 120, on the earlier filing date of prior application USAN 10/313,986, filed December 4, 2002; which is a continuation-in-part of USAN 10/117,982, filed April 5, 2002; which is a continuation-in-part of USAN 10/007,700, filed November 30, 2001; which is a continuation-in-part of USAN 09/897,778, filed June 28, 2001; which is a continuation-in-part of USAN 09/850,716, filed May 7, 2001; which is a continuation-in-part of USAN 09/735,705, filed December 12, 2000; which is a continuation-in-part of USAN 09/685,696, filed October 9, 2000; which is a continuation-in-part of USAN 09/662,786, filed September 15, 2000; which is a continuation-in-part of USAN 09/643,597, filed August 21, 2000; which is a continuation-in-part of USAN 09/630,940, filed August 2, 2000; which is a continuation-in-part of USAN 09/606,421, filed June 28, 2000; which is a continuation-in-part of USAN 09/542,615, filed April 4, 2000; which is a continuation-in-part of USAN 09/510,376, filed February 22, 2000; which is a continuation-in-part of USAN 09/480,884, filed January 10, 2000; which is a continuation-in-part of USAN 09/476,496, filed December 30, 1999; which is a continuation-in-part of USAN 09/466,396, filed December 17, 1999; which is a continuation-in-part of USAN 09/285,479, filed April 2, 1999; which is a continuation-in-part of USAN 09/221,107,

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Second Supplemental Information Disclosure Statement submitted with RCE

filed December 22, 1998; which is a continuation-in-part of USAN 09/123,912, filed July 27, 1998; which is a continuation-in-part of USAN 09/040,802, filed March 18, 1998. The references listed on pages 1-15 of the attached Second Supplemental Information Disclosure Statement were submitted to and/or cited by the Office in these prior applications and, therefore, are not required to be provided in the present application. If the Examiner wishes, copies will be provided upon request.

However, the references cited on page 15 of the attached Second Supplemental Information Disclosure Statement were not previously made of record. Accordingly, the references are enclosed herewith.

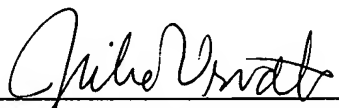
As to any reference cited on the attached Second Supplemental Information Disclosure Statement, Applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with Applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, Applicants believe that their invention is patentable.

Please acknowledge receipt of this Second Supplemental Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Supplemental Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



Julie A. Urvater, Ph.D., Patent Agent
Registration No. 50,461

JAU:ljt

Enclosures:

Information Disclosure Statement (15 Sheets)
Cited References (5)

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
210121.455C20APPLICATION NO.
10/623,155**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**
(Use several sheets if necessary)APPLICANTS
Tongtong Wang et al.FILING DATE
July 17, 2003GROUP ART UNIT
1632**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,589,579	12/31/96	Torczynski et al.	536	23.1	
	AB	5,705,159	01/06/98	Irie et al	424	185.1	
	AC	5,783,422	07/21/98	Suminami et al.	435	69.3	
	AD	6,200,764	03/13/00	Carney	435	7.23	
	AE	6,297,364	10/2/01	Chen et al.	536	23.1	
	AF	2002/0119463	08/29/02	Faris et al.	435	6	
	AG						
	AH						
	AI						
	AJ						

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	DE 19924199 A1	11/30/00	Germany		X
	AL	EP 1033401 A2	09/06/00	EPO		
	AM	EP 1130094 A2	09/05/01	EPO		
	AN	EP 679716 A1	11/11/94	EPO		
	AO	EP 695760 A1	02/07/96	EPO		

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	AP	Ackermann, R. "Monoclonal antibodies," <i>Human Cell</i> 1(1): 46-53, 1988 (Abstract Only; PubMed ID:3154013).
	AQ	Arceci, R.J, "The potential for antitumor vaccination in acute myelogenous leukemia," <i>J. Mol. Med.</i> 76: 80-93, 1998.
	AR	Baldi et al., "Differential expression of Rb2/p130 and p107 in normal human tissues and in primary lung cancer," <i>Clinical Cancer Research</i> 3(10):1691-1697, October 1997.

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* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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BA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BB	WO 91/18926	12/12/91	WIPO		
	BC	WO 94/06929	03/31/94	WIPO		
	BD	WO 95/21862	08/17/95	WIPO		
	BE	WO 96/02552	02/01/96	WIPO		
	BE	WO 96/13610	05/09/96	WIPO		
	BG	WO 96/28473	09/19/96	WIPO		
	BH	WO 96/30389	10/03/96	WIPO		
	BI	WO 97/07244	02/27/97	WIPO		
	BJ	WO 98/35985	08/20/98	WIPO		
	BK	WO 98/46788	10/22/98	WIPO		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BL	Bergers and Coussens, "Extrinsic regulators of epithelial tumor progression: metalloproteinases," <i>Current Opinion in Genetics & Developments</i> 10: 120-127, 200.
BM	Bodey, B. et al., "Failure of Cancer Vaccines: The Significant Limitations of this Approach to Immunotherapy," <i>Anticancer Research</i> 20: 2665-2676, 2000.
BN	Boon, T., "Toward a Genetic Analysis of Tumor Rejection Antigens," <i>Advances in Cancer Research</i> 58: 177-210, 1992.
BO	Brass et al., "Translation initiation factor eIF-4gamma is encoded by an amplified gene and induces an immune response in squamous cell lung carcinoma," <i>Human Molecular Genetics</i> , 6(1): 33-39, 1997.
BP	Chen, Shen-Lin et al., "Isolation and characterization of a novel gene expressed in multiple cancers," <i>Oncogene</i> 12: 741-751, 1996.

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	CA						

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CB	WO 99/06550	02/11/99	WIPO		
	CC	WO 99/38973	08/05/99	WIPO		
	CD	WO 99/44620	09/10/99	WIPO		
	CE	WO 99/46594	09/16/99	WIPO		
	CF	WO 99/47674	09/23/99	WIPO		
	CG	WO 99/54738	10/28/99	WIPO		
	CH	WO 00/12711	03/09/00	WIPO		
	CI	WO 00/61612	10/19/00	WIPO		
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	CL	Chen, Y.-T. et al., "A testicular antigen aberrantly expressed in human cancers detected by autologous antibody screening" <i>Proc. Natl. Acad. Sci. USA</i> 94: 1914-1918, March 1997.
	CM	Database EMBL Nucleotide and Protein Sequence, Accession No. AI468638, March 17, 1999.
	CN	Database EMBLest17 Accession No. AA340797:EST46165 Fetal kidney II Homo sapiens cDNA 3' end, April 18, 1997.
	CO	Database EMBLest17 Accession No. AA340797:EST46165 Fetal kidney II Homo sapiens cDNA 3' end, April 18, 1997.
	CP	Database EMBLest17 Accession No. W22264:Human retina cDNATsp-509I-cleaved sublibrary Homo sapiens cDNA not directional, May 9, 1996.

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	DB	WO 01/57272	08/09/01	WIPO		
	DC	WO 01/57275	08/09/01	WIPO		
	DD	WO 01/57275	08/09/01	WIPO		
	DE	WO 01/57277	08/09/01	WIPO		
	DF	WO 01/75067	10/11/01	WIPO		
	DG	WO 02/10449	02/07/02	WIPO		
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	DJ	Davidson et al., "Lung tumours immunoreactive for parathyroid hormone related peptide: analysis of serum calcium levels and tumour type," <i>Journal of Pathology</i> 178:398-401, January 1996.
	DK	Ezzell, C., "Cancer 'Vaccines': An Idea Whose Time Has Come?" <i>The Journal of NIH Research</i> 7: 46-49, January 1995.
	DL	Finch et al., "Identification of a cloned sequence activated during multi-stage carcinogenesis in mouse skin," <i>Carcinogenesis</i> , 12(8):1519-1522, August 1991.
	DM	GenBank Database, Accession No. AAB82295, October 30, 1997.
	DN	GenBank Database, Accession No. AAB97457, January 22, 1998.
	DO	GenBank Database, Accession No. AAC18597, June 3, 1998.

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EA						

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				YES	NO
EB					

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EC	GenBank Database, Accession No. AAC18598, June 3, 1998.
ED	GenBank Database, Accession No. AAC35208, May 13, 1997.
EE	GenBank Database, Accession No. AAC41285, May 13, 1998.
EF	GenBank Database, Accession No. AAD09223, January 26, 1999.
EG	GenBank Database, Accession No. AAD09827, January 26, 1999.
EH	GenBank Database, Accession No. AAD09828, January 26, 1999.
EI	GenBank Database, Accession No. AAD48397, August 11, 1999.
EJ	GenBank Database, Accession No. AAF37203, March 2, 2000.
EK	GenBank Database, Accession No. AB026833, May 26, 1999.
EL	GenBank Database, Accession No. AC005082, September 8, 1999.
EM	GenBank Database, Accession No. AC021876, January 21, 2000.

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				YES	NO
FB					

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FC	GenBank Database, Accession No. AC079780, February 21, 2002.
FD	GenBank Database, Accession No. AC092447, July 4, 2001.
FE	GenBank Database, Accession No. AF043977, June 23, 1999.
FF	GenBank Database, Accession No. AF114429, January 1, 2000.
FG	GenBank Database, Accession No. AF117108, January 26, 1999.
FH	GenBank Database, Accession No. AF127980, August 11, 1999.
FI	GenBank Database, Accession No. AF198254, March 2, 2000.
FJ	GenBank Database, Accession No. AL023775, November 23, 1999.
FK	GenBank Database, Accession No. BAA77810, May 26, 1999.
FL	GenBank Database, Accession No. BAB19755, December 20, 2000.
FM	GenBank Database, Accession No. BAB27779, February 8, 2001.

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GA						

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					YES	NO
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	GC	GenBank Database, Accession No. BAB27848, February 8, 2001.
	GD	GenBank Database, Accession No. BC019258, December 19, 2001.
	GE	GenBank Database, Accession No. NM_006536, August 10, 1999.
	GF	GenBank Database, Accession No. NM_006547, November 1, 2000.
	GG	GenBank Database, Accession No. NP_006527, August 10, 1999.
	GH	GenBank Database, Accession No. NP_006537, August 10, 1999.
	GI	GenBank Database, Accession No. NP_006538, November 1, 2000.
	GJ	GenBank Database, Accession No. NP_006539, August 10, 1999.
	GK	GenBank Database, Accession No. NP_034081, January 25, 2000.
	GL	GenBank Database, Accession No. NP_076159, February 19, 2001.
	GM	GenBank Database, Accession No. NP_571566, February 20, 2002.

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					YES	NO
	HB					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

HC	GenBank Database, Accession No. O00425, July 1, 1997.
HD	GenBank Database, Accession No. U76705, January 26, 1999.
HE	GenBank Database, Accession No. U85946, July 30, 1999.
HF	GenBank Database, Accession No. U97188, May 20, 1997.
HG	GenBank Database, Accession No. XM_004780, November 16, 2000.
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HI	Geneseq Accession Number AAC66035, February 21, 2001.
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IB					

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IC	Geneseq Database (Thomson Derwent), Accession AAT26750, October 23, 1996.
ID	Geneseq Database (Thomson Derwent), Accession AAU16161, November 7, 2001.
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IF	Geneseq Database (Thomson Derwent), Accession AAU16164, November 7, 2001.
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IK	Geneseq Database (Derwent), Accession No. AAC82881, March 21, 2001.
IL	Geneseq Database (Derwent), Accession No. AAC82886, March 21, 2001.
IM	Geneseq Database (Derwent), Accession No. AAC82887, March 21, 2001.

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JB					

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JC	Genseq Database (Derwent), Accession No. AAC82890, March 21, 2001.
JD	Genseq Database (Derwent), Accession No. AAC82893, March 21, 2001.
JE	Genseq Database (Derwent), Accession No. AAC82895, March 21, 2001.
JF	Genseq Database (Derwent), Accession No. AAC82896, March 21, 2001.
JG	Genseq Database (Derwent), Accession No. AAC82897, March 21, 2001.
JH	Genseq Database (Derwent), Accession No. AAC82898, March 21, 2001.
JI	Genseq Database (Derwent), Accession No. AAX40511, June 18, 1999.
JJ	Genseq Database (Derwent), Accession No. AAY11789, June 18, 1999.
JK	Gerhold and Caskey, "It's the genes! EST access to human genome content," <i>BioEssays</i> 18(12):973-981, 1996.
JL	Greenspan and Cooper, "Complementarity, specificity and the nature of epitopes and paratopes in multivalent interactions," <i>Immunology Today</i> 16(5): 226-230, 1995.
JM	Gruber et al., "Molecular cloning and transmembrane structure of hCLCA2 from human lung, trachea, and mammary gland," <i>Am. J. Physiol.</i> 276(Cell Physiol 45):C1261-C1270, 1999.

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				YES	NO
KB					

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KC	Guo et al., "Identification and characterization of homologues of the Exocyst component Sec10p," <i>FEBS Letters</i> 404(2-3):135-139, 1997.
KD	Gura, T., "System for Identifying New Drugs Are Often Faulty," <i>Science</i> 278: 1041-1042, November 7, 1997.
KE	Güre, A.O. et al., "Human Lung Cancer Antigens Recognized by Autologous Antibodies: Definition of a Novel cDNA Derived from the Tumor Suppressor," <i>Cancer Research</i> 58: 1034-1041, March 1, 1998.
KF	Hara et al., "Characterization of cell phenotype by a novel cDNA library subtraction system: expression of CD8 α in a mast cell-derived interleukin-4-dependent cell line," <i>Blood</i> 84(1):189-199, July 1, 1994.
KG	Henderson et al., "Identification of lung tumor antigens for cancer immunotherapy: immunological and molecular approaches," <i>Immunological Investigation</i> 29(2):87-91, May 2000.
KH	Hogan et al., "The peptide recognized by HLA-A68.2-restricted, squamous cell carcinoma of the lung-specific cytotoxic T lymphocytes is derived from a mutated elongation factor 2 gene," <i>Cancer Research</i> 58(22):5144-5150, November 15, 1998.
KI	Hu et al., "A small proline-rich protein, spr1: specific marker for squamous lung carcinoma," <i>Lung Cancer</i> 20:25-30, 1998.
KJ	Jolly, D., "Viral vector systems for gene therapy," <i>Cancer Gene Therapy</i> 1(1):51-64, 1994.
KK	Lee, K-H. et al., "Increased Vaccine-Specific T Cell Frequency After Peptide-Based Vaccination Correlates with Increased Susceptibility to In Vitro Stimulation But Does Not Lead to Tumor Regression," <i>The Journal of Immunology</i> 163: 6292-6300, 1999.
KL	Lelievre et al., "Structural properties of chimeric peptides containing a T-cell epitope linked to a fusion peptide and their importance for in vivo induction of cytotoxic T-cell responses," <i>European Journal of Biochemistry</i> 249(3):895-904, 1997.
KM	Marshall and Hodgson, "DNA chips: an array of possibilities," <i>Nature Biotechnology</i> 16:27-31, January 1998.

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	APPLICANTS Tongtong Wang et al.	
	FILING DATE	GROUP ART UNIT
	July 17, 2003	1632

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	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
LB					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

LC	Marusawa, H. et al., "HBXIP functions as a cofactor of surviving in apoptosis suppression," <i>EMBO Journal</i> 22(11): 2729-2740, 2003.
LD	Müeller-Pillasch, F. et al., "Cloning of a gene highly overexpressed in cancer coding for a novel KH-domain containing protein," <i>Oncogene</i> 14: 2729-2733, 1997.
LE	New England Biolabs website, Description on the pCyB Expression Vectors: http://circuit.neb.com/neb/faqs/impact2.html , (2001)
LF	Nielsen, J. et al., "A Family of Insulin-Like Growth Factor II mRNA-Binding Proteins Represses Translation in Late Development," <i>Molecular and Cellular Biology</i> 19(2): 1262-1270, February 1999.
LG	Pastor et al., "Diagnostic value of SCC, CEA and CYFRA 21.1 in lung cancer: a Bayesian analysis," <i>Eur. Respir J.</i> 10(3):603-609, March 1997.
LH	Radoja and Frey, "Cancer-induced Defective Cytotoxic T Lymphocyte Effector Function: Another Mechanism How Antigenic Tumors Escape Immune-mediated Killing," <i>Molecular Medicine</i> 6(6): 465-479, June 2000.
LI	Rammensee et al., "MHC ligands and peptide motifs: first listing," <i>Immunogenetics</i> 41:178-228, 1995.
LJ	Ramsay, G., "DNA chips: state-of-the art," <i>Nature Biotechnology</i> 16:40-44, January 1998.
LK	Ruppert et al., "Prominent role of secondary anchor residues in peptide binding to HLA-A2.1 molecules," <i>Cell</i> 74:929-937, September 10, 1993.
LL	Russell and Barton, "Structural features can be unconserved in proteins with similar folds," <i>J. Mol. Biol.</i> 244:332-350, 1994.
LM	Sherman et al., "Selecting T cell receptors with high affinity for self-MHC by decreasing the contribution of CD8," <i>Science</i> 258:815-818, October 30, 1992.

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				YES	NO
MB					

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MC	Sjölander, A. et al., "Kinetics, localization and cytokine profile of T cell responses to immune stimulating complexes (iscoms) containing human influenza virus envelope glycoproteins," <i>Vaccine</i> 15(9): 1030-1038, 1997.
MD	Skeiky et al., "Cloning, expression and immunological evaluation of two putative secreted serine protease antigens of Mycobacterium tuberculosis," <i>Infection and Immunity</i> 67(8):3998-4007, August 1999.
ME	Spitler, L.E., "Cancer Vaccines: The Interferon Analogy," <i>Cancer Biotherapy</i> 10(1): 1-3, 1995.
MF	Stern, P.S., "Predicting antigenic sites on proteins," <i>Trends in Biotechnology</i> 9: 163-169, May 1991.
MG	Theobald et al., "Targeting p53 as a general tumor antigen," <i>Proc. Natl. Acad. Sci. USA</i> 92:11993-11997, December 1995.
MH	Timmerman and Levy, "Dendritic Cell Vaccines for Cancer Immunotherapy," <i>Annu. Rev. Med.</i> 50: 507-529, 1999.
MI	Visseren et al., "Identification of HLA-A *0201-restricted CTL epitopes encoded by the tumor-specific MAGE-2 gene product," <i>International Journal of Cancer</i> 73(1):125-130, 1997.
MJ	Wang et al., "Identification of genes differentially over-expressed in lung squamous cell carcinoma using combination of cDNA subtraction and microarray analysis," <i>Oncogene</i> 19(12):1519-1528, March 16, 2000.
MK	Wells and Peitsch, "The chemokine information source: identification and characterization of novel chemokines using the WorldWideWeb and expressed sequence tag databases," <i>Journal of Leukocyte Biology</i> 61:545-550, May 1997.
ML	Wong, C.P. et al., "TCR Vaccines Against T Cell Lymphoma: QS-21 and IL-12 Adjuvants Induce a Protective CD8 ⁺ T Cell Response," <i>The Journal of Immunology</i> 162: 2251-2258, 1999.

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					YES	NO
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	NC	Yee et al., "Isolation of tyrosinase-specific CD8 ⁺ and CD4 ⁺ T cell clones from the peripheral blood of melanoma patients following in vitro stimulation with recombinant vaccinia virus," <i>The Journal of Immunology</i> 157:4079-4086, 1996.
	ND	Zaks and Rosenberg, "Immunization with Peptide Epitope (p369-377) from HER-2/neu Leads to Peptide-specific Cytotoxic T Lymphocytes That Fail to Recognize HER-2/neu+ Tumors," <i>Cancer Research</i> 58: 4902-4908, November 1, 1998.
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	OJ					
	OK					
	OL					
	OM					

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	ON	Cunningham, S.A. et al., "Cloning of an Epithelial Chloride Channel from Bovine Trachea," <i>The Journal of Biological Chemistry</i> 270(52): 31016-31026, December 29, 1995.
	OO	Elble, R.C. et al., "Cloning and Characterization of Lung-Endothelial Cell Adhesion Molecule-1 Suggest It Is an Endothelial Chloride Channel," <i>The Journal of Biological Chemistry</i> 272(44): 27853-27861, October 31, 1997.
	OP	Konopitzky, R. et al., "Identification of HLA-A 0201-Restricted T Cell Epitopes Derived from the Novel Overexpressed Tumor Antigen Calcium-Activated Chloride Channel 2," <i>The Journal of Immunology</i> 169: 540-547, 2002.
	OQ	Li, X. et al., "CLCA2 tumour suppressor gene in 1p31 is epigenetically regulated in breast cancer," <i>Oncogene</i> 23: 1474-1480, 2004.

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